

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/656,159
Attorney Docket No. Q77223

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A communication terminal apparatus mounted in a mobile unit, comprising:

~~a display unit;~~

a communication unit;

a route information acquiring unit which acquires driving route information based on a driving route calculated by an information center from the information center through the communication unit;

a guiding unit which guides a route based on the driving route information acquired by the acquiring unit;

~~a connection control unit for controlling a connection state between the communication unit and an information center to make connection to the information center through the communication unit to acquire information from the information center; and~~

a prediction unit for predicting which predicts a possibility for the mobile unit to deviate from the driving route shown by the acquired driving route information;

a connection control unit which controls the communication unit to start processing for connecting to the information center when it is predicted there is a possibility for the mobile unit to deviate from the driving route; and

a transmitting unit which transmits route calculation request information for calculating a new driving route to the information center when the mobile unit deviates from the driving route after the processing for connecting to the information center is started. ~~the necessity for connection between the communication unit and the information center,~~

~~wherein the connection control unit starts connection to the information center based on a prediction result of the prediction unit.~~

2. (canceled).

3. (currently amended): A communication terminal apparatus as defined in claim 1, wherein the prediction unit detects a driving state of [[a]] the mobile unit to monitor ~~decide~~ whether or not there is a possibility that the mobile unit deviates from a driving scheduled ~~route~~ and predicts ~~the necessity for connection between the communication unit and the information center~~ route.

4. (currently amended): A communication terminal apparatus as defined in claim 3, wherein detection of a driving state of [[a]] the mobile unit by the prediction unit is a comparison

of a driving position and a driving direction of the mobile unit with a driving ~~scheduled~~-route
shown by driving route information.

5. (currently amended): A communication terminal apparatus as defined in claim 3,
~~wherein further comprising a traffic information acquiring unit which acquires traffic~~
~~information, and wherein detection of a driving state of a mobile unit by the prediction unit is a~~
~~comparison of the acquired traffic information with a driving ~~scheduled~~-route shown by the~~
~~driving route information.~~

6. (currently amended): A ~~connection control~~ communication method in a
communication terminal apparatus mounted in a mobile unit, which includes the communication
terminal apparatus comprising a display unit, a communication unit, [and] a route information
acquiring unit which acquires driving route information based on a driving route calculated by an
information center from the information center through the communication unit, and a guiding
unit which guides a route based on the driving route information acquired by the acquiring unit, a
~~connection control unit for controlling a connection state between the communication unit and an~~
~~information center to make connection to the information center through the communication unit~~
~~to acquire information from the information center,~~ the method comprising:

predicting a possibility for the mobile unit to deviate from the driving route shown by the
acquired driving route information.

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controlling the communication unit to start processing for connecting to the information center when it is predicted there is a possibility for the mobile unit to deviate from the driving route, and

transmitting route calculation request information for calculating a new driving route to the information center when the mobile unit deviates from the driving route after the processing for connecting to the information center is started. ~~the necessity for connection between the communication unit and the information center; and~~

~~starting connection to the information center based on a prediction result of the prediction unit.~~

7. (currently amended): A computer program embodied on a computer readable medium and executable on a computer, for causing ~~[[a]]~~ the computer to function as a mobile unit mounted communication terminal apparatus ~~which includes~~including:

a display unit,

a communication unit,

a route information acquiring unit which acquires driving route information based on a driving route calculated by an information center from the information center through the communication unit,

a guiding unit which guides a route based on the driving route information acquired by the acquiring unit, ~~a connection control unit for controlling a connection state between the~~

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~~communication unit and an information center to make connection to the information center
through the communication unit to acquire information from the information center,~~

a prediction unit for predicting which predicts a possibility for the mobile unit to deviate
from the driving route shown by the acquired driving route information,

a connection control unit which controls the communication unit to start processing for
connecting to the information center when it is predicted there is a possibility for the mobile unit
to deviate from the driving route, and

a transmitting unit which transmits route calculation request information for calculating a
new driving route to the information center when the mobile unit deviates from the driving route
after the processing for connecting to the information center is started. ~~the necessity for
connection between the communication unit and the information center, wherein the connection
control unit starts connection to the information center based on a prediction result of the
prediction unit.~~

8. (new): A communication terminal apparatus as defined claim 1, wherein the
route calculation request information for calculating a new driving route includes information of
a present position after the mobile unit deviates.